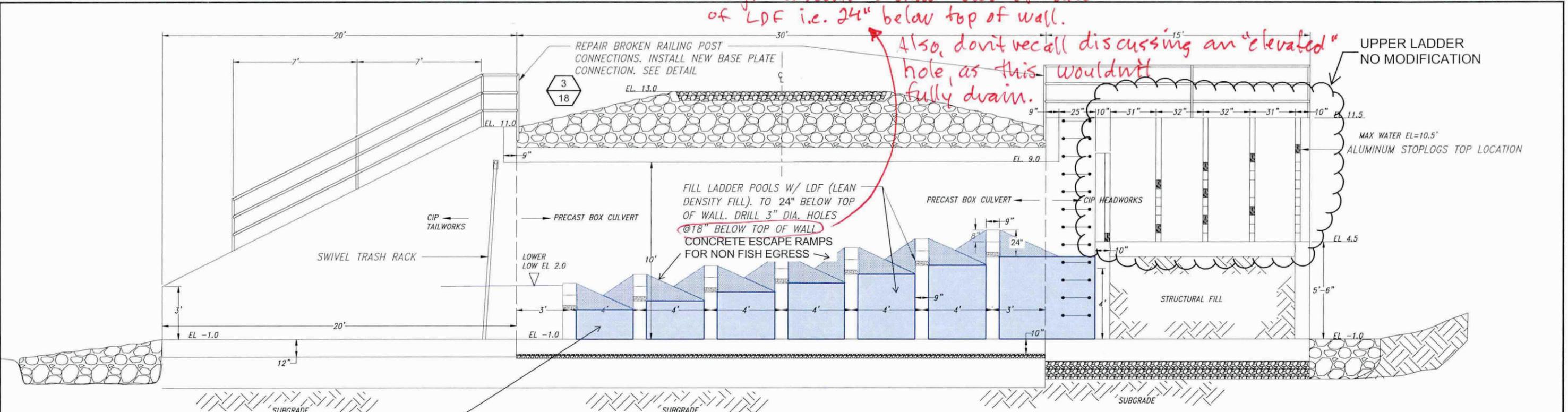


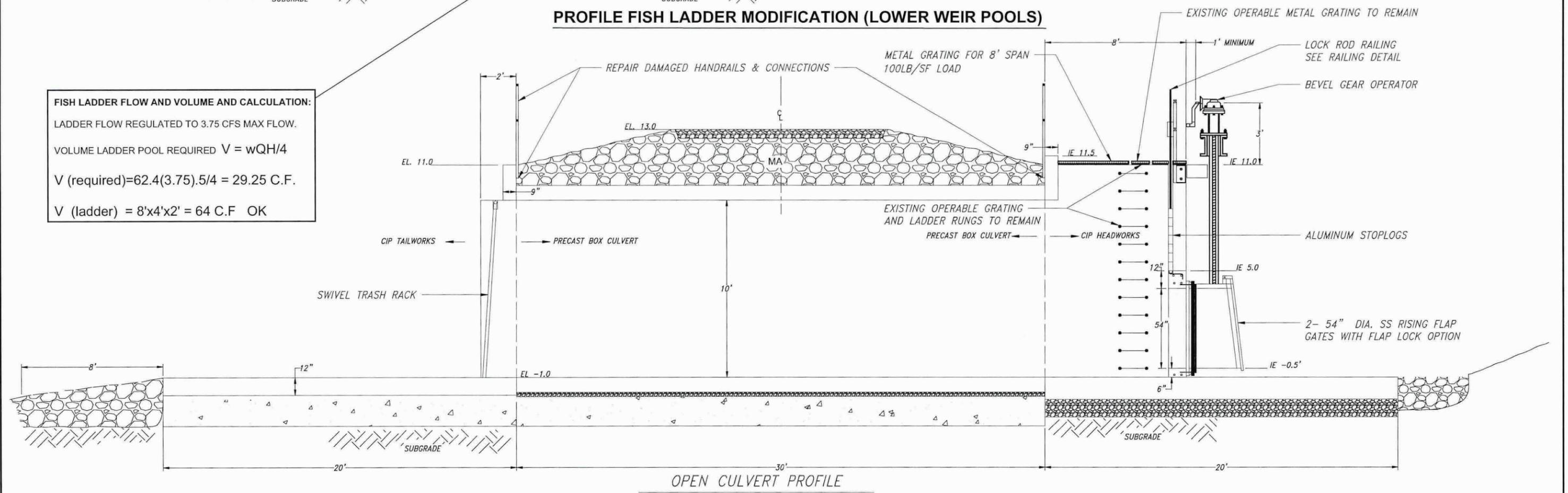
Diagram seems to show holes at base of LDF i.e. 24" below top of wall.

Also, don't recall discussing an "elevated" hole, as this wouldn't fully drain.



PROFILE FISH LADDER MODIFICATION (LOWER WEIR POOLS)

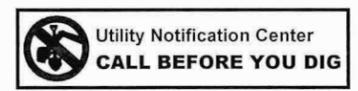
FISH LADDER FLOW AND VOLUME AND CALCULATION:
 LADDER FLOW REGULATED TO 3.75 CFS MAX FLOW.
 VOLUME LADDER POOL REQUIRED $V = wQH/4$
 V (required) = $62.4(3.75).5/4 = 29.25$ C.F.
 V (ladder) = $8'x4'x2' = 64$ C.F. OK



1 PROFILE OPEN CULVERT MODIFICATIONS

PERMIT SET

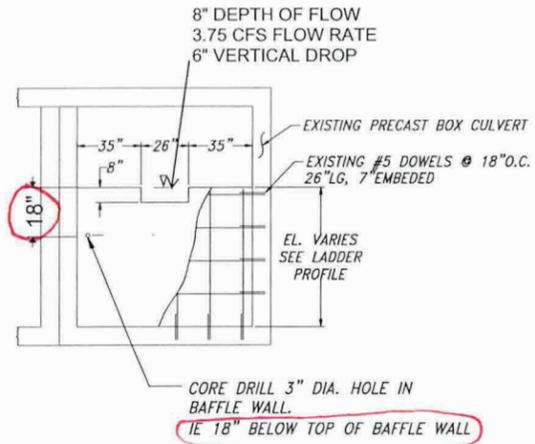
Unauthorized Changes & Uses
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes must be in writing and must be approved by the preparer of these plans.



REV. NO.	DESCRIPTION	DATE	APPROVED

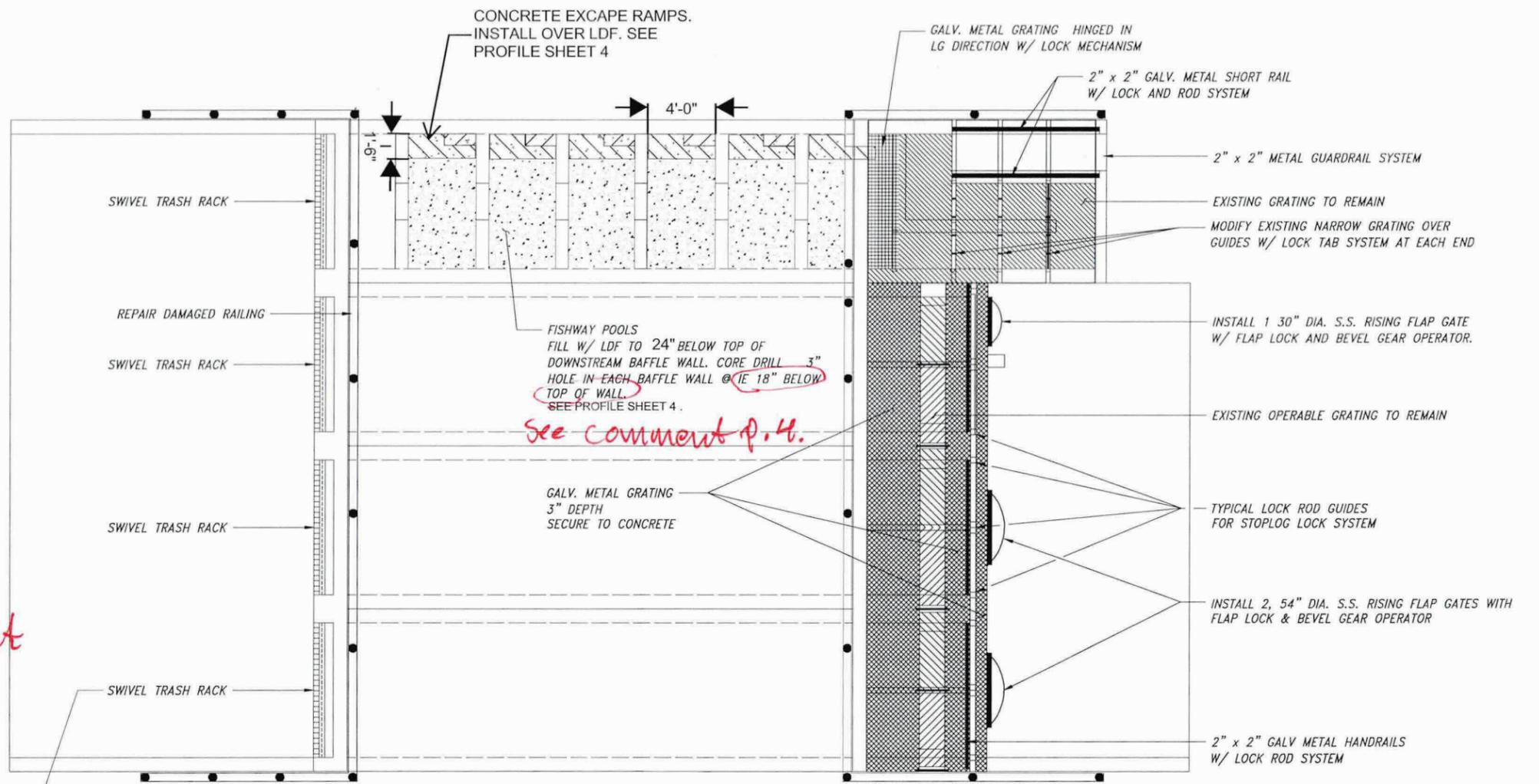


PROJECT NO. US-OR-32-8	DATE: 12/14/16	DESIGNED BY: GW
METRO: SMITH BYBEE		DRAWN BY: DMC
		SURVEYED BY:
		CHECKED BY:
		SHEET NO. 4 OF 8

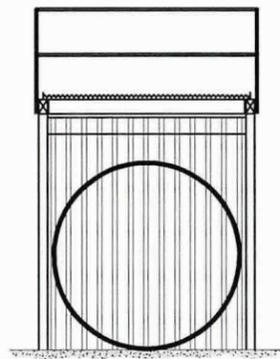


**2 FISH LADDER BAFFLES
IMPROVEMENTS**

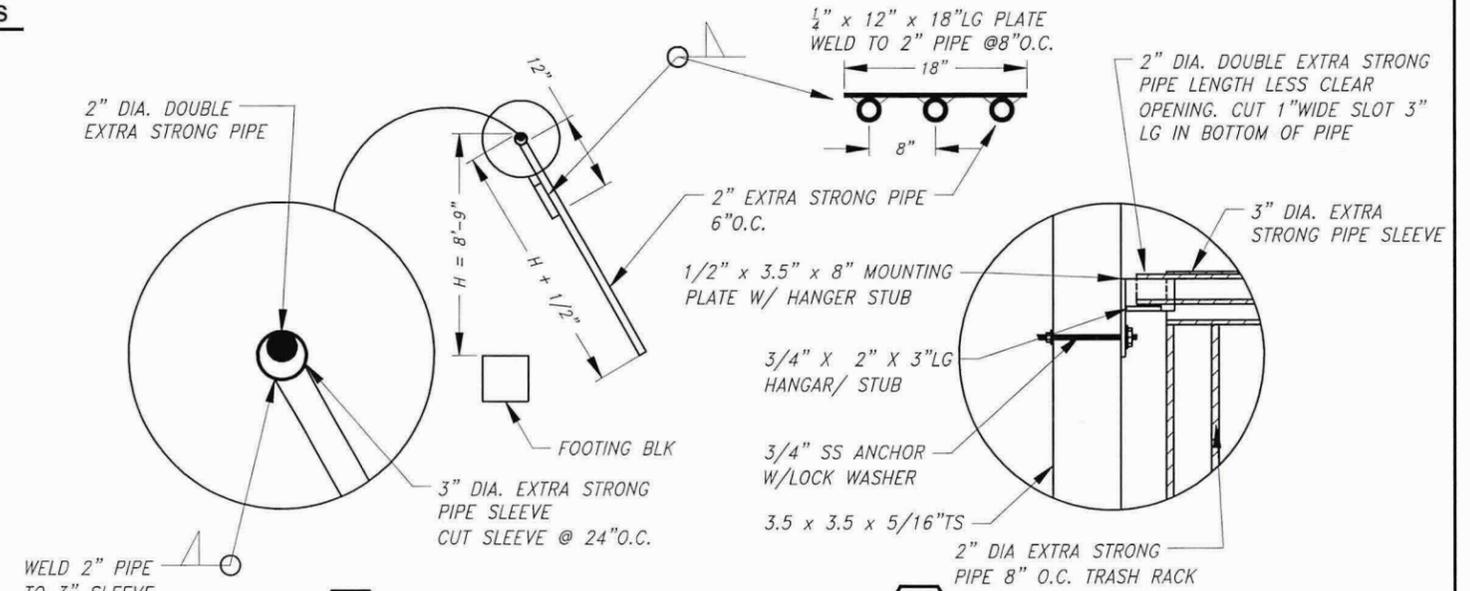
*See
comment
P.4*



**1 WCS IMPROVEMENTS
5 WCS PLAN VIEW**



**3 TRASH RACK
5**

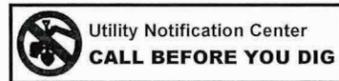


**4 HANGING BAR DETAIL
5 TRASH RACK**

**5 SUPPORT DETAIL
5 TRASH RACK**

PERMIT SET

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REVISIONS			
REV. NO.	DESCRIPTION	DATE	APPROVED



PROJECT NO. US-OR-32-8	DATE: 12/14/16	DESIGNED BY: GW
METRO: SMITH BYBEE		DRAWN BY: DMC
		SURVEYED BY:
		CHECKED BY:
WCS IMPROVEMENTS		SHEET NO. 5 OF 8